

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 January 2006 (19.01.2006)

PCT

(10) International Publication Number
WO 2006/006761 A1

(51) International Patent Classification⁷: **B65D 65/46**

(74) Agent: **KIM, Sun-young**; Korea Coal Center, 10th Floor,
80-6, Susong-Dong, Chongro-Ku, Seoul 110-727 (KR).

(21) International Application Number:
PCT/KR2005/000217

(22) International Filing Date: 26 January 2005 (26.01.2005)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2004-0053629 9 July 2004 (09.07.2004) KR

(71) Applicant (for all designated States except US): **YOUL
CHON CHEMICAL CO., LTD [KR/KR]**; #370-1, Sin-
daebang-dong, Dongjak-gu, Seoul 156-709 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KIM, Heon Moo**
[KR/KR]; Jugong Apt. 338-508, #552, Cheolsan-dong,
Kwangmyeong-si, Kyeonggi-do 423-733 (KR). **LEE,
Sung-Arn** [KR/KR]; Jugong, Apt. 320-303, Weolpi-dong,
Sangrok-gu, Ansan-si, Kyeonggi-do 425-798 (KR). **KIM,
Kang-Soo** [KR/KR]; Jugong Greenville Apt. 908-503,
#765, Gojan 1-dong, Danwon-gu, Ansan-si, Kyeonggi-do
425-798 (KR). **AN, Jun-Seung** [KR/KR]; Hyundai 1-cha
Apt. 3-206, #661-3, Gojan 1-dong, Danwon-gu, Ansan-si,
Kyeonggi-do 425-806 (KR). **KIM, Young-Hee** [KR/KR];
Woosung Apt. 5-505, Bono 3-dong, Sangrok-gu, Ansan-si,
Kyeonggi-do 426-732 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW

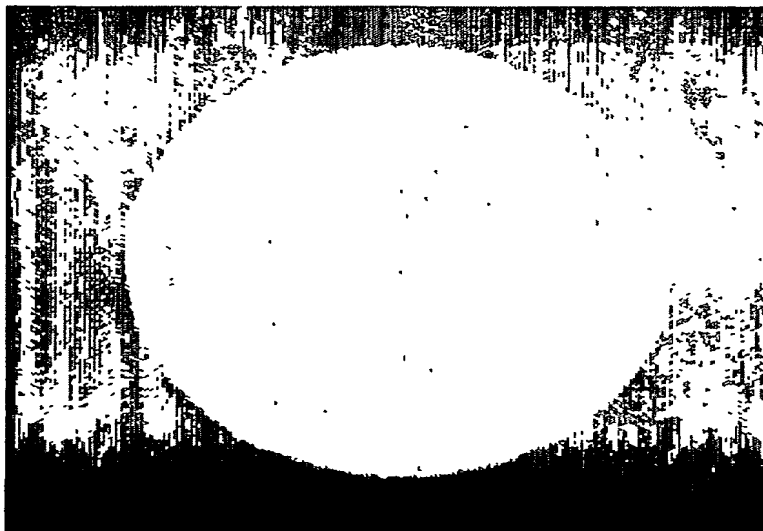
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: BIODEGRADABLE STARCH BOWL AND METHOD FOR PREPARING THE SAME



(57) Abstract: Disclosed is a biodegradable starch bowl prepared by heating and pressurizing a composition for the biodegradable starch bowl comprising unmodified starch of 20-60 wt.%; pulp fiber powder of 5-30 wt.%; solvent of 30-60 wt.%; photo catalyst of 0.1-2.0 wt.%; preservative of 0.01-1 wt.%; and releasing agent of 0.5-5 wt.% to have a desired shape, and a biodegradable film being attached on the inner surface of the bowl. The biodegradable starch bowl according to the present invention has an improved sterilizing property, deodorizing property, preservative property, releasing property, water-resistance and strength.

WO 2006/006761 A1

BEST AVAILABLE COPY